

Message Text

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ACTION OES-05

INFO OCT-01 EA-10 ISO-00 FEA-01 EB-07 /024 W

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FM AMEMBASSY TOKYO

TO ERDA GERMANTOWN

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UNCLAS TOKYO 2549

E.O. 11652: N/A

TAGS: TECH, JA

SUBJECT: ERD,HELIUM STUDY

REFTEL USERDA SAME SUBJECT 21 FEB 75

FOR DR. A.S. FRIEDMAN

1. DR. GOHEI MONNA AND COLLEAGUES, NIPPON SANJO, SUPPLIED
FOLLOWING INFO RE HELIUM USE IN JAPAN:

2. PRICE FOR JAPAN CONSUMERS RANGES FROM 1300 YEN PER CUBIC
METER TO 3000 YEN PER CUBIC METER (CU M) DEPENDING UPON
QUANTITY PURCHASES. (285.5 YEN PER US DOLLAR.) AVERAGE
PRICE 1700 YEN PER CU M. NIPPON SANJO BUYING THEIR HELIUM
SUPPLIES FROM CITIES SERVICES PLANT ULYSSES KANSAS AND
REFINED HELIUM CO. OTIS KANSAS. THEIR PURCHASE PRICE NOT
RPT NOT AVAILABLE. HOWEVER, OSAMU KITAMURA, ALSO NIPPON
SANJO, SAID US PRICE FOR RAW HELIUM PUBLISHED IN US
MAGAZINE IS 605 YEN PER CU M (\$6.00 PER 100 CUBIC FT).

3. FUTURE DEMANDS. DEMANDS BASED UPON TOKYO UNIVERSITY
STUDY OF MAY 16, 1973. MONNA DOES NOT THINK JAPANESE
SITUATION HAS CHANGED SIGNIFICANTLY.

INDUSTRIAL USE 1973 - 500,000 CU M/YEAR

1993 - 2,000,000 CU M/YEAR

2003 - 3,000,000

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I. ELECTRIC POWER USE - SUPERCONDUCTIVITY

A. GENERATORS

1983 - 1993 3.9 X 10E6 CU M INVENTORY
 .39 X 10E6 LOSS /YEAR
1993-2003 5.7 X 10E6 CU M INVENTORY
 .57 X 10E6 LOSS/YEAR

B. TRANSMISSION LINES

1993 - 2003 42 X 10E6 CU M INVENTORY
 4.2 X 10E6 LOSS/YEAR

C. ENERGY STORAGE

1993 - 2003 30 X 10E6 CU M INVENTORY
 3 X 10E6 LOSS/YEAR

II. MAGNETIC LEVITATION (VEHICLES)

1983 - 1993 .01 X 10E6 CU M INVENTORY
 .015 X 10E6 LOSS/YEAR
1993 - 2003 .15 X 10E6 INVENTORY
 .015 X 10E6 LOSS/YEAR

III. HIGH ENERGY PHYSICS

1993 - 2003 1.5 X 10E6 CU M INVENTORY
 .15 10E6 LOSS/YEAR

4. HELIUM SOURCES BEYOND 2003. SIGNIFICANT THOUGHT HAS NOT BEEN GIVEN TO HELIUM SUPPLY BEYOND THE YEAR 2003. QUESTION ON POST YEAR 2000 SOURCES ELICITED STATEMENT FROM KITAMURA THAT PRESENT PLANT UNDER CONSTRUCTION IN POLAND WILL SUPPLY ABOUT ONE-THIRD OF EUROPE'S NEED. ALSO THAT SOME HELIUM NOW PRODUCED FROM AIR REDUCTION PROCESS IN JAPAN AT A COST OF 80,000 YEN PER CU M.

5. ANSWERS TO QUESTIONS, REFTTEL, FROM OTHER COUNTRIES UNDER TOKYO COGNIZANCE NOT YET AVAILABLE.

6. COPY OF TOKYO UNIV. REPORT ON HELIUM NEEDS BEING POUCHED TO FRIEDMAN, A/AAIA. IF APPROPRIATE, APPRECIATE RECEIVING COPY OF REPORT ON SUBJECT ERDA HELIUM STUDY FOR TRANSMITTAL TO DR. MONNA, WHEN REPORT BECOMES AVAILABLE.
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